

**CLAIMS**

1. A thermogenic gene SfUCPa derived from skunk cabbage, of which cDNA comprises the base sequence of SEQ ID NO: 1.

5

2. A thermogenic gene SfUCPb derived from skunk cabbage, of which cDNA comprises the base sequence of SEQ ID NO: 3.

3. A thermogenic protein SfUCPA expressed from the gene SfUCPa of Claim 1, which comprises the amino acid sequence of SEQ ID NO: 2.

10

4. A Thermogenic protein SfUCPB expressed from the gene SfUCPb of Claim 2, which comprises the amino acid sequence of SEQ ID NO: 4.

5. A DNA fragment comprising the base sequence of SEQ ID NO: 1 or a partial sequence thereof.

15

6. A DNA fragment comprising the base sequence of SEQ ID NO 3: or a partial sequence thereof.

20